PEAVEY T-27® OPERATING GUIDE

CAUTION
TO PREVENT ELECTRICAL SHOCK OR FIRE HAZARD, DO NOT EXPOSE THIS INSTRUMENT TO RAIN OR MOISTURE. BEFORE USING THIS INSTRUMENT, READ BACK COVER FOR FURTHER WARNINGS.

NECK

The neck is carved from select hard-rock maple utilizing our patented (U.S. Patent No. 4,237,544) bilamination construction to prevent twisting and warping. Internally housed between the bilamination of rock maple is a fully adjustable steel torsion rod with rolled threads. This steel torsion rod is firmly attached at the body end of the neck and is adjustable at the nut end with our special truss rod adjustment tool. The T-27® utilizes a **slant peg head** design with all six tuning machines in a straight line configuration.

BODY

The body is constructed from selected hardwood, which is finished with our special polyester-urethane material in a natural finish or one of our optional custom colors. The body style is a double cutaway with the necessary space above and below the neck to allow ease of playing above the 12th fret position. The body shape has a special **rib cage contour** to allow ease of handling when instrument is to be used with a guitar strap. The finish we've chosen for the T-27® is very highly mar and weather resistant and should offer years of service to the owner. (See Caring for your Guitar - Finish)

PICKUPS

Two of the three pickups are high output **single coil** designs with blade pole pieces utilizing a unique molded housing which allows critical adjustment near the strings for maximum output. The bridge (rear) pickup is a high output humbucking design to greatly increase tonal range and flexibility of the T-27®. This pickup employs our patented tone circuit (dual/single coil, U.S. Patent No. 4,164,163) allowing humbucking or single coil operation of the rear pickup thru rotation of the tone control (see "How the Circuit Works"). The pickups are fully potted to reduce unwanted microphonics and noise and to allow pickups to remain intact for many years without vibrating loose in transport or use. Note: Because of this potting it is virtually impossible to disassemble the pickup without totally destroying the unit. Any attempt to disassemble the pickup will void the warranty on the electronics of your instrument.

CIRCUIT

The circuit utilized in the T-27® is designed for maximum tonal flexibility, featuring 3 pickups (two single coils and one humbucking) feeding a 5-way selector switch. The pickups are conventional designs and operate through a unique combining system associated with the 5-position switch. There is only one volume control which operates the output level of all three pickups and there are two tone controls, one for the neck/middle pickup and one for the bridge (humbucking) pickup. The bridge pickup tone control allows the unique capability of selecting between humbucking response or single coil tonalities. (See Description of "How the Circuit Works" and "Pickup Selector".)

FRETS

The fret wire material for the T-27® is classed as medium heavy. The frets are high crowned, 18% nickel-silver and provide excellent intonation/compensation characteristics and superb string bending techniques. Eighteen percent nickel provides significantly more hardness than material used on most competing guitars and should provide years of trouble-free performance.

HARDWARE

The bridge is a die-cast unit, which is triple plated chrome with fully adjustable individual saddles for intonation. The individual saddles have been designed to allow a great deal of front to back movement for intonation adjustments when dealing with different gauge strings for different types of playing technique. (See Adjustments - Intonation) The top nut is constructed from a bone-hard polycarbonate material. The premium tuning machines have a 15:1 ratio with special contoured control knobs.

NECK TILT

The neck tilt feature controls the all important playing angle of the neck while at the same time allows critical string fret clearance to be adjusted accurately. When used in conjunction with the torsion rod adjustment the guitar should be easily set up to exact playing specifications for many different styles and personal tastes. (See Adjustments - Neck Tilt)

SCALE

This instrument features a "full" scale length which is 24-3/4" and there are 23 frets.

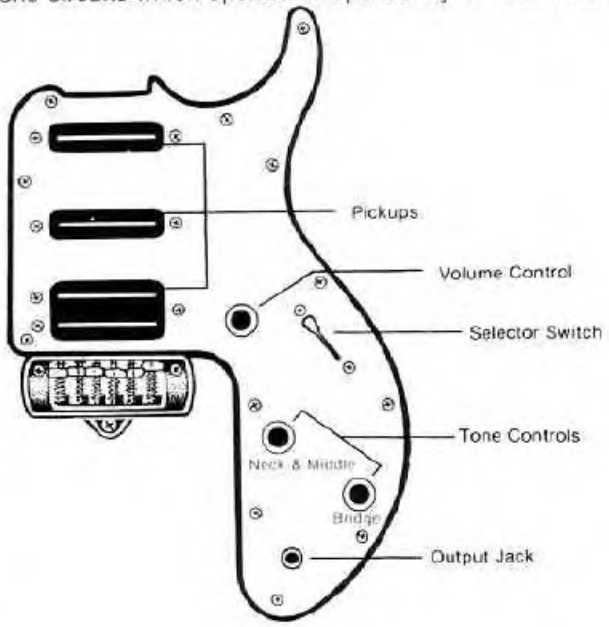
CASE

The case is padded, custom molded and contoured to fit the T-27® guitar and includes a large storage area, secure latches, and lock system. This unit is molded with a double-walled construction and has passed most requirements to be rated as a **"flite case type"**.

CONTROLS

1. **Volume.** The volume control is the element for regulating the output of all three pickups and the level is increased by rotation clockwise while a counterclockwise motion will decrease the output signal. It is also **compensated** so that there is a minimal loss of high frequencies with reduced volume, however, optimum performance is at a maximum setting. A special contoured control knob is used for comfort and smoothness of this feature.

2. **Tone.** The neck, middle and bridge pickups have separate tone circuits which operate independently of each other. The



tone controls function to blend tonalities of pickups. NOTE: Tone control for neck and middle pickups will operate as a normal tone control for each pickup independently, as well as when pickups are combined. (See "Pickup Selector Switch".)

3. **Pickup Selector**. The Pickup Selector Switch (a 5-position switch) functions much differently with the T-27® than with other guitars, employing 5-way switches. Moving the switch fully forward activates the neck pickup and the extreme back position places the instrument in the bridge (humbucking) pickup mode. The **middle** position activates **only** the **center** pickup. The two positions on **either side** of **center** with the 5-position switch produce tonalities with much greater flexibility than most typical guitars with 5-way select switches.

The total operational characteristics of the selectability of the T-27® are as follows:

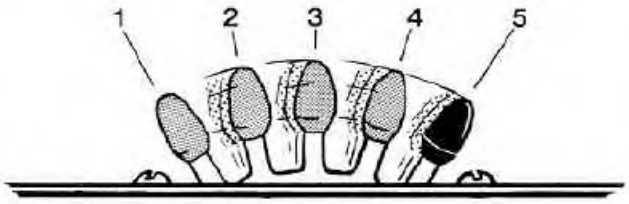
First Position (Toward the neck) Selects output of neck pickup only. (Single Coil)

Second Position (One click back) Selects output of neck and center pickups. (Humbucking)

Third Position (Center) Selects output of center pickup only. (Single Coil)

Fourth Position (One click back of center) Selects output of center and bridge pickups. (Humbucking)

Fifth Position (Toward bridge) Selects output of bridge pickup only. (Humbucking/single Coil)



HOW THE CIRCUIT WORKS

The capabilities of the 3-way pickup, 5-position switch circuitry provide unmatched flexibility for guitars of this type. The **second** position, as described in the "Pickup Selector" description, is unique in the fact that "dual-coil", "humbucking properties" are obtained by combining the **neck** and **center** pickups in a humbucking mode. The **fourth** position creates a unique combination with the bridge pickup acting as a humbucking **or** single coil unit. In the fourth position the center pickup and the bridge pickup are activated. With this combination it is possible to have two single coil pickups working together in a humbucking mode or a dual coil, humbucking pickup combined with the center (single coil) pickup. Our unique patented tone circuit enables dual or single coil operation from the (humbucking) bridge pickup, through the rotation of the rear pickup tone control. Rotating the tone control fully clockwise (position no. 10) achieves the single coil mode and produces a greater degree of highs from the instrument.

Rotating the tone control **counterclockwise** to approximately the "7" position brings the second coil into operation for humbucking tonalities. Further rotation counterclockwise of the tone control allows action typical of humbucking pickups and the bridge pickup is full humbucking all the way back to the "0" position. When rotating the tone control from "0" to "10" you will notice as you past "7" the overall tonality from the bridge pickup becomes much thinner and more highs are apparent, noting that one of the coils has been slowly eliminated and from 7 to 10 on the control knob produces single coil operation.

ADJUSTMENTS

Your T-27® guitar has been carefully adjusted for accurate intonation and playing ease at the Peavey factory. However, your playing style, choice of strings or playing requirements may necessitate additional adjustments at some time in the future. These adjustments should be made by your Peavey dealer. However, with a little care and by adhering closely to the following instructions you may attempt these adjustments yourself.

CAUTION:
PLEASE READ AND UNDERSTAND THE INSTRUCTIONS THOROUGHLY BEFORE ATTEMPTING ANY ADJUSTMENTS.

1. Adjusting Torsion Rod:

To set the straightness or relief of the neck, Peavey torsion rod wrench #75031001 must be used. This wrench is available from a Peavey accessory center at your authorized Peavey dealer.

Setting the T-27® Neck:

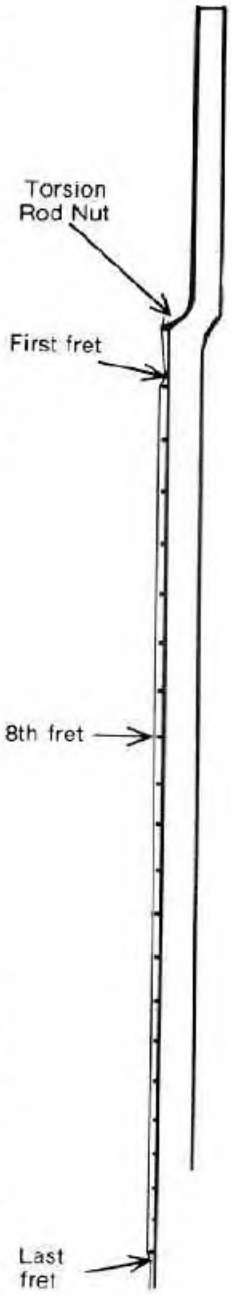
A. Tune the instrument to standard (A-440) pitch.

B. Fret the sixth (big E) string at the first and last frets.

C. Check for clearance between string and the 8th fret.

D. This clearance should be no less than 1/64" and no more than 3/32".

E. To increase clearance, loosen the torsion rod nut counterclockwise. For less clearance (straightening of the neck), tighten the torsion rod nut.



CAUTION:
IT IS NOT USUALLY NECESSARY TO ROTATE THE TORSION ROD NUT MORE THAN ONE FULL TURN IN EITHER DIRECTION. ONE-QUARTER TO ONE-HALF TURN IS NORMALLY SUFFICIENT TO MAKE MOST ADJUSTMENTS. EXCESSIVE ROTATION MAY CAUSE DAMAGE TO THE NECK AND TORSION ROD. IF EXCESSIVE FORCE IS NECESSARY TO ROTATE THE TORSION ROD NUT, YOU SHOULD CONSULT YOUR PEAVEY DEALER OR THE FACTORY BEFORE ANY FURTHER ADJUSTMENT IS MADE.

F. Repeat steps A through E until proper clearance has been reached.

2. Neck Tilt:

The neck tilt adjustment works in conjunction with the nut and bridge height, to accomplish playing-action specifications.

A. Relieve string tension slightly by detuning the guitar approximately one to two full steps.

B. Loosen the two neck screws closest to the headstock of the guitar approximately one turn.

C. Loosen the remaining two screws closest to the bridge approximately two turns.

D. String height may now be adjusted with the neck tilt screw, which is located inside the small, fifth hole in the neckplate. A 1/8" Allen wrench is used to make this adjustment. Turning the screw clockwise lowers the strings closer to the fingerboard.

NOTE:
STRING HEIGHT SHOULD BE ADJUSTED TO FIT YOUR OWN PARTICULAR PLAYING STYLE. IT SHOULD BE NOTED THAT SETTING THE STRING HEIGHT TOO LOW WILL RESULT IN EXCESSIVE STRING BUZZ AND RATTLE — ESPECIALLY WITH A HEAVY PLAYING TECHNIQUE. EXCESSIVELY HIGH ACTION WILL RESULT IN INTONATION PROBLEMS AND DECREASED PLAYABILITY.

E. After adjustment securely tighten all four neck attaching screws.

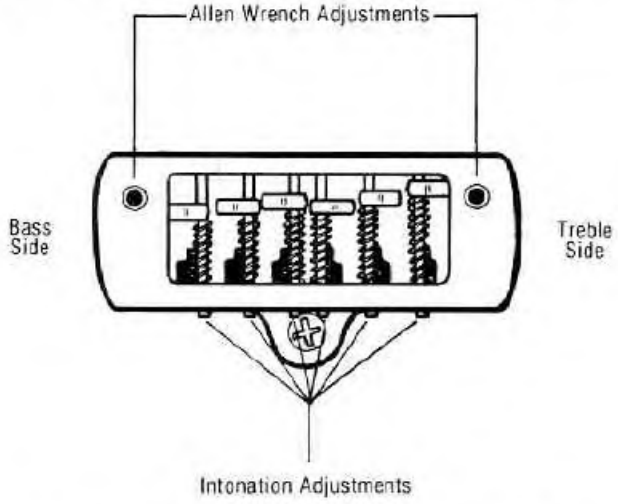
F. Tune the guitar to standard pitch. Check the strings for proper height and playability. If necessary, repeat steps A through E until action is correct.

3. String Intonation:

Accurate string intonation settings ensure that your instrument will play in tune at any point on the neck. Although "perfect intonation" is a physical impossibility with any fretted instrument, the correct settings with the bridge and saddle combination of the T-27® will maximize the accuracy of the individual notes up and down the neck.

NOTE:
THE MOST ACCURATE INTONATION WILL ALWAYS BE AT THE 12TH FRET. NOTES WHICH ARE THE GREATEST DISTANCES FROM THE 12TH FRET (UP OR DOWN) WILL APPEAR THE MOST OUT OF TUNE ON ANY FRETTED INSTRUMENT.

Intonation is set by comparing the pitch of an open string to the pitch of the same string when it is played one octave higher at the 12th fret. The actual "vibrating length" of that string is varied until the notes are both the right pitch. The "vibrating length" of the string is altered by adjusting the individual bridge saddles either forward or backward depending on whether the fretted note is sharper or flatter in pitch than the open note. If the fretted note is sharper than the open note, the vibrating length of the string must be increased - move the bridge saddle to the rear away from the pickup. If the fretted note is flat, the vibrating length of the string must be shortened - move the bridge forward toward the pickup to shorten the length.



NOTE:
IT IS OFTEN DIFFICULT FOR THE UNTRAINED EAR TO DETERMINE WHEN THE OPEN NOTE AND THE FRETTED NOTE ARE AT PRECISELY THE SAME PITCH (EXACTLY ONE OCTAVE APART). SOME PLAYERS FIND THAT COMPARING THE 12th FRET HARMONIC OF THE STRING (RATHER THAN THE OPEN NOTE) TO THE FRETTED NOTE IS MUCH EASIER. A HARMONIC IS PLAYED BY PLUCKING THE STRING WITH THE RIGHT HAND WHILE THE TOUCHING THE STRING WITH THE LEFT INDEX FINGER (AS LIGHTLY AS POSSIBLE) DIRECTLY ABOVE THE 12th FRET. THE LEFT INDEX IS DRAWN AWAY AS QUICKLY AS POSSIBLE AFTER THE STRING IS PLUCKED, PRODUCING A "CHIME" EFFECT. THIS CHIME NOTE IS THEN COMPARED TO THE FRETTED NOTE. FOR EVEN GREATER EASE AND A HIGH DEGREE OF ACCURACY, WE RECOMMEND ONE OF THE MANY TYPES OF ELECTRONIC GUITAR TUNERS THAT ARE AVAILABLE FROM MOST MUSIC STORES. THE TUNERS WHICH USE EITHER A METER OR A MOVING LED DISPLAY ARE USUALLY EASIER TO USE THAN THE TYPE WITH A NUMERICAL FREQUENCY READOUT.

Setting Intonation:

NOTE:
ALL GUITAR ADJUSTMENTS INTERACT CLOSELY WITH STRING INTONATION. THESE ADJUSTMENTS MUST BE COMPLETED BEFORE ANY ATTEMPT IS MADE TO SET THE STRING INTONATION AT THE BRIDGE.

A. Ensure that the torsion rod and neck tilt adjustments have been made and are accurate.

B .Tune the T-27® to standard (A-440) pitch.

C. Hold the instrument in a normal playing position. Do not exert any undue pressure on the neck as it will affect intonation settings.

D. Play the first string open and compare it to the pitch of the same string when it is played at the 12th fret. These notes should be the same (one octave apart).

E. Using a Phillips head screwdriver adjust the length of the string saddle so that the open note and the fretted note (or harmonic) are the same.

NOTE:
IT WILL OFTEN BE NECESSARY TO RETUNE THE OPEN STRING TO STANDARD PITCH AFTER THE BRIDGE SADDLE POSITION IS ALTERED.

F. Repeat steps D and E for the remaining strings.

G. Repeat steps A through F as necessary until the intonation of all the strings are accurately adjusted.

5. Care of the T-27®:

The T-27® is a high quality musical instrument constructed from the finest materials and with the most modern production methods available. With reasonable care, it should provide many years of service and outstanding playability.

Temperature and Humidity:

It is important that your instrument be protected from any extremes or sudden changes in either temperature or humidity. The instrument should be stored in it's case whenever it is not in use.

Strings:

String life may be greatly extended by frequent cleaning and wiping after use. Dirt and perspiration tend to build up on the underside of the strings so it is often necessary to slide a rag between the strings and the fingerboard. Dirt-laden strings cause tuning and intonation problems as well as rust and corrosion. For best performance, strings should be changed approximately once a month or every 24 hours of playing. Some players may find that they prefer to change strings more often.

NOTE:
YOUR T-27® IS EQUIPPED WITH PEAVEY GLIDERS® FOR ROCK STYLES. THE INTONATION AND ACTION OF YOUR INSTRUMENT HAS BEEN CAREFULLY ADJUSTED FOR MAXIMUM PLAYABILITY WITH THESE STRINGS. WHEN STRING REPLACEMENT BECOMES NECESSARY, WE RECOMMEND OUR HIGH QUALITY AND LONG LASTING PEAVEY GLIDERS® FOR ROCK STYLES OR GLIDERS® FOR COUNTRY STYLES. OUR GLIDER® STRINGS ARE MANUFACTURED TO EXACTING TOLERANCES UTILIZING THE FINEST COMPOUNDED AND REFINED MATERIALS. THE RESPONSE CHARACTERISTICS OF OUR STRINGS ARE UNMATCHED FOR REPRODUCING THE TONALITIES AND TEXTURES FOR COUNTRY, ROCK, JAZZ/ROCK AND OTHER "CROSSOVER" STYLES.

Finish:

Your instrument has a polyester-urethane finish which is both durable and weather resistant but nevertheless needs care. Automotive grade waxes will protect, clean and shine it. Between waxings the instrument should be wiped with a dry soft cloth.

Case:

The case may be cleaned with a damp cloth with or without soap. Care should be taken to avoid wetting the plush lined interior.

NOTE:
THE PATCH CORD BETWEEN THE GUITAR AND AMPLIFIER IS AN EXTREMELY IMPORTANT LINK. FOR OPTIMUM PERFORMANCE A HIGH QUALITY, WELL SHIELDED CORD SHOULD BE USED IN THIS APPLICATION.

PEAVEY GUITAR ONE-YEAR LIMITED WARRANTY/REMEDY

PEAVEY ELECTRONICS CORPORATION ("Peavey") warrants this Guitar to be free from defects in material and workmanship for a period of one year from date of purchase; PROVIDED, however, that this limited warranty is extended only to the original retail purchaser and is subject to the conditions, exclusions and limitations hereinafter set forth.

CONDITIONS, EXCLUSIONS AND LIMITATIONS OF LIMITED WARRANTY

This limited warranty shall be VOID and of NO EFFECT if:

1. The first purchase of the product is for the purpose of resale; or
2. The original retail purchase is not made from an AUTHORIZED PEAVEY DEALER; or
3. The product has been damaged by accident or unreasonable use, neglect, improper service or maintenance, or other causes not arising out of defects in material or workmanship.

This limited warranty shall not extend to or cover guitar strings. Replacement of guitar strings is deemed to be reasonable and necessary maintenance.

Purchaser's exclusive remedy for breach of this limited warranty is repair of the defect or replacement of the Guitar, at Peavey's option, after the Guitar is returned, postage prepaid and insured, along with a description of the problem, proof of purchase and a complete return address to:

PEAVEY ELECTRONICS CORPORATION
711 A Street
Meridian, Mississippi 39301

If the defect is remedial under this limited warranty, and the other terms and conditions expressed herein have been complied with, Peavey will repair or replace the product and will return it, freight collect, to the purchaser. Other than the postage and insurance requirement, no charge will be made for such repair or replacement.

Peavey's liability to the purchaser for any cost whatsoever, and regardless of the form of action, whether in contract or in tort, including negligence, shall be limited to actual damages up to an amount equal to the greater of the purchase price of the product causing the damage or $500.00. UNDER NO CIRCUMSTANCES WILL PEAVEY BE LIABLE FOR ANY LOST PROFITS, ANY INCIDENTAL DAMAGES OR ANY CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF OR INABILITY TO USE THE GUITAR, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

The foregoing limitation of remedy will not apply to the payment of cost and damage awards for personal injury or damage to real property or tangible personal property caused by negligence on Peavey's part.

THIS LIMITED WARRANTY IS IN LIEU OF ANY AND ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE; PROVIDED, HOWEVER, THAT IF THE OTHER TERMS AND CONDITIONS NECESSARY TO THE EXISTENCE OF THE EXPRESS, LIMITED WARRANTY, AS HEREINABOVE STATED, HAVE BEEN COMPLIED WITH, IMPLIED WARRANTIES ARE NOT DISCLAIMED DURING THE ONE-YEAR PERIOD FROM DATE OF PURCHASE OF THIS GUITAR.

SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

THIS LIMITED WARRANTY IS THE ONLY EXPRESS WARRANTY ON THIS GUITAR, AND NO OTHER STATEMENT, REPRESENTATION, WARRANTY OR AGREEMENT BY ANY PERSON SHALL BE VALID AS TO OR BINDING UPON PEAVEY.

THE WARRANTY REGISTRATION CARD AND A LEGIBLE COPY OF THE PROOF OF PURCHASE SUPPLIED TO YOU BY THE AUTHORIZED PEAVEY DEALER IN CONNECTION WITH YOUR PURCHASE FROM HIM OF THIS GUITAR SHOULD BE ACCURATELY COMPLETED, MAILED TO AND RECEIVED BY PEAVEY WITHIN FOURTEEN (14) DAYS FROM THE DATE OF YOUR PURCHASE.

Should notification become necessary for any condition that would require correction, the registration card will help insure that you are contacted and properly notified.

If you move from the address shown on the WARRANTY REGISTRATION CARD, you should notify Peavey of the change of address so as to facilitate your receipt of any bulletins or other forms of notification which may become necessary in connection with any condition that may require dissemination of information or correction.

The WARRANTY REGISTRATION CARD and subsequent notices of change of address should be mailed to:

PEAVEY ELECTRONICS CORPORATION
P.O. Box 2898
Meridian, Mississippi 39301

In the event any modification or disclaimer of express or implied warranties, or any limitation of remedies, contained herein conflicts with applicable law, then such modification, disclaimer or limitation, as the case may be, shall be deemed to be modified to the extent necessary to comply with such law.

The limited warranty is given by Peavey Electronics Corporation with respect to equipment purchased in the United States of America.

WARNING

DO NOT USE IMPROPER OR POORLY DESIGNED GUITAR STRAPS OR OTHER MEANS OF SUPPORT. POSSIBLE INJURY COULD RESULT IF IMPROPER, INFERIOR, ILL FITTING OR WORN OUT STRAPS ARE USED. THE INSTRUMENT COULD POSSIBLY FALL, CAUSING BODILY INJURY OR DAMAGE TO THE INSTRUMENT OR ASSOCIATED EQUIPMENT IF THE HOLDING DEVICES FAIL FOR ANY REASON.

DANGER

GUITAR STRINGS ARE MADE FROM VERY STRONG STEEL ALLOYS. THEY ARE DESIGNED TO BE USED UNDER TENSION AND, UNDER CERTAIN CONDITIONS, THEY MAY BREAK AND SPRING AWAY FROM THE GUITAR. DO NOT TUNE OR PLAY THIS INSTRUMENT WITH YOUR FACE IN CLOSE PROXIMITY TO THE STRINGS, AS SERIOUS INJURY COULD RESULT IF A STRING SHOULD BREAK.

DANGER

ALL AMPLIFICATION ACCESSORIES, MICRO-PHONES, MIXERS, ETC., MUST BE PROPERLY GROUNDED AND SHOULD BE UTILIZED WITH A 3-WIRE MAINS SYSTEM IN ORDER TO AVOID ELECTRICAL SHOCK.

DANGER

DO NOT COME INTO CONTACT WITH OTHER ELECTRICAL APPARATUS WHEN PLAYING (OR TOUCHING) YOUR INSTRUMENT. THE METAL PARTS OF THIS INSTRUMENT ARE GROUNDED ACCORDING TO PROPER AND ACCEPTED INDUSTRY PRACTICE, BUT IT IS POSSIBLE TO ENCOUNTER AN ELECTRICAL SHOCK WHEN COMING INTO CONTACT WITH ANOTHER ELECTRICAL APPARATUS IF IT HAS IMPROPER GROUNDING FACILITIES.

PEAVEY ELECTRONICS CORPORATION
711 A Street / Meridian, MS 39301 / U.S.A.

Due to our efforts for constant improvement, features and specifications are subject to change without notice.

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